

ABSTRACT

A computing machine includes a first buffer and a processor coupled to the buffer. The processor executes an application, a first data-transfer object, and a second data-transfer object, publishes data under the control of the application, loads the
5 published data into the buffer under the control of the first data-transfer object, and retrieves the published data from the buffer under the control of the second data-transfer object. Alternatively, the processor retrieves data and loads the retrieved data into the buffer under the control of the first data-transfer object, unloads the data from the buffer under the control of the second data-transfer object, and processes the
10 unloaded data under the control of the application. Where the computing machine is a peer-vector machine that includes a hardwired pipeline accelerator coupled to the processor, the buffer and data-transfer objects facilitate the transfer of data between the application and the accelerator.